

**Massage carriage**

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**Claims**

1. Massage carriage for use in a massage chair or similar  
10 that can be moved back and forth along a frame in the  
massage chair or similar, comprising a drive (1) that  
contains at least one motor (2) and gearing parts, a first  
shaft (6) that can be moved by the drive (1) and a second  
15 shaft (7) that can be moved by the drive (1), two first  
arms (18, 19), which are connected to the first shaft (6),  
can be moved by the first shaft (6) and on each of which a  
massage element (20, 21) is mounted, and two second arms  
(24, 25), which are connected to the second shaft (7) and  
20 can be moved by the second shaft (7), one of which each  
acts on one of the first arms (18, 19), such that the  
massage elements (20, 21) can be moved by the drive (1)  
with one movement component oriented parallel to the frame  
and one oriented perpendicular to the frame, where the  
drive (1) displays a single motor (2) with a motor shaft  
25 (3), characterized in that the motor  
shaft (3) displays two shaft sections (8, 9), arranged on  
opposite face ends of the motor (2) and lying on one axis,  
where the first shaft (6) can be moved by means of the one  
shaft section (8) via a reduction gear (4), and the second  
30 shaft (7) by means of the other shaft section (9) via a  
reduction gear (5).
2. Massage carriage according to Claim 1, characterized  
35 in that the shaft sections (8, 9) are  
sections of a continuous motor shaft (3).

3. Massage carriage according to Claim 1 or 2, c h a r a c -  
t e r i z e d i n t h a t the reduction gear (5) via  
which the second shaft (7) can be moved displays a free-  
5 wheel device (10) in a particular sense of rotation of the  
motor shaft.
4. Massage carriage according to Claim 1, c h a r a c -  
t e r i z e d i n t h a t one of the shaft sections (9)  
10 can be permanently driven by the motor (2), and the other  
shaft section (8) can be disconnected from the motor (2)  
by means of a clutch (11).
5. Massage carriage according to Claim 4, c h a r a c -  
15 t e r i z e d i n t h a t the clutch (11) is an  
electromagnetic clutch.
6. Massage carriage according to Claim 4 or 5, c h a r a c -  
t e r i z e d i n t h a t the clutch (11) displays an  
20 automatic brake, by means of which the disconnectable  
shaft section (8) can be braked or blocked in disconnected  
state.
7. Massage carriage according to Claim 6, c h a r a c -  
25 t e r i z e d i n t h a t the disconnectable shaft  
section (8) can be braked or blocked by an integrated  
spring mechanism.
8. Massage carriage according to one of Claims 4 to 7,  
30 c h a r a c t e r i z e d i n t h a t the reduction  
gear (5) via which the second shaft (7) can be moved  
displays a free-wheel device (10) in a particular sense of  
rotation of the shaft section (9) that can be permanently  
driven by the motor (2).
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9. Massage carriage according to one of Claims 1 to 8, characterized in that the drive (1) displays a housing comprising two shells (26, 27) for the motor (2) and the gearing parts.

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10. Massage carriage according to Claim 9, characterized in that the bearing arrangement for the motor (2) and the gearing parts is integrated in the housing in one piece.

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11. Massage carriage according to Claim 10, characterized in that the housing shells (26, 27) and the bearing arrangement for the motor (2) and the gearing parts are made of plastic, injection-molded in one piece.

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12. Massage carriage according to one of Claims 9 to 11, characterized in that one part (31) of a nut is integrally molded on the housing and interacts with the spindle (30) of a linear drive unit located on the frame for moving the massage carriage along the frame, where the other part (32) of the nut (29) can be fastened to the one part (31) from the outside, such that the spindle (30) can be accommodated between the two parts (31, 32).

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13. Massage carriage according to one of Claims 1 to 12, characterized in that the two reduction gears are designed as worm gears.

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